

Claims

- 5 1. System (9) for visualisation of optical markings of an ophthalmic lens, comprising
- a light source (10), supplying an incident light beam (11) illuminating the ophthalmic lens (2),
 - on the optical path of the incident beam (11), reflecting means (15) arranged
10 downstream from the ophthalmic lens (2) and a collimation and magnifying lens (14) arranged upstream from the ophthalmic lens (2),
 - a camera (13), the lens (14), the ophthalmic lens (2) and the reflecting means (15) being arranged on the same main optical axis (S),
- system characterized in that
- 15 the reflecting means (15) comprise a plurality of flat reflecting faces (16), arranged in the form of at least one cube corner block open in the direction of the ophthalmic lens (2).
- 20 2. System according to claim 1, characterized in that the flat reflecting faces (16) are constituted by solid cube corner blocks made of plastic.
3. System according to claim 1, characterized in that the flat reflecting faces (16) are constituted by hollow cube corner blocks made of plastic.
- 25 4. System according to claim 1, characterized in that the flat reflecting faces (16) are formed by mirrors.
- 30 5. System according to claim 4, characterized in that it comprises six flat reflecting faces (16) formed by mirrors, arranged in the form of two cube corner blocks, arranged on each side of the main optical axis (S).

6. System according to any one of the claims 1 to 4, characterized in that the flat reflecting faces (16), in the form of cube corner blocks form a matrix (33) of adjacent cube corner blocks.

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7. System according to any one of the claims 1 to 6, characterized in that it comprises a tinted lens (22) arranged on the main optical axis (S), between the lens (14) and the ophthalmic lens (2).

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8. System according to any one of the claims 1 to 7, characterized in that the light source (10) is formed by a light-emitting diode arranged next to the main optical axis (S), the incident light beam (11) illuminating the ophthalmic lens (2) by means of the semi-reflecting means (12) arranged on the main optical axis (S), between the lens and the camera.

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9. System according to any one of the claims 1 to 7, characterized in that the light source (10) comprises several light-emitting diodes (38), arranged in a ring around the main optical axis (S), upstream from the lens (14).

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10. System according to any one of the claims 1 to 9, characterized in that it comprises a transparent protective plate (20) between the ophthalmic lens (2) and the reflecting means (15) and a fixing suction pad (19) arranged between the ophthalmic lens (2) and the protective plate (20).

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11. System according to any one of the claims 1 to 9, characterized in that it comprises a transparent protective plate (20) between the ophthalmic lens (2) and the reflecting means (15) and an annular seal (40) arranged between the ophthalmic lens (2) and the protective plate (20).

12. System according to any one of the claims 1 to 11, characterized in that it comprises rotation means (18) to make the reflecting means (15) rotate around the main optical axis (S).

5 **13.** Device for stamp-marking ophthalmic lenses (2) comprising at least one inking unit (7), a stamp-marking unit (8) and visualisation means, device characterized in that the visualisation means are formed by at least one visualisation system (9) according to any one of the claims 1 to 12.

10 **14.** Method for orienting ophthalmic lenses, comprising placing an ophthalmic lens (2) on a support (19, 40) and adjusting the position of the ophthalmic lens (2) by means of optical markings visualised by the visualisation means, characterized in that the visualisation means are formed by at least one visualisation system (9) according to any one of the claims 1 to 12.